

IN THE CLAIMS

No amendments are made to the claims, which are reproduced for the Examiner's convenience below:

1. (PREVIOUSLY PRESENTED) A device for generating a display of an electronic program guide on a screen, the device comprising:  
a receiver including a tuner for receiving an input stream, of television content and electronic program guide data, and separating the electronic program guide data from the input stream;  
a memory coupled to the tuner for storing the electronic program guide data separated from the input stream;  
display means for generating a display which combines a set of electronic program guide data including a plurality of program titles, and a plurality of organizational categories, each program title belonging to at least one of the organizational categories, the program titles arranged in the display so that program titles which belong to the same organizational categories are spatially adjacent and program titles which are not members of the same organizational categories are spatially separated, the organizational categories providing a first-level organization which defines overall content of the display and a second-level organization which defines the spatial separation of the program titles, where the organizational categories are used at any organizational level.
2. (ORIGINAL) The device of Claim 1, wherein the organizational categories provide additional levels of organization to the display.
3. (ORIGINAL) The device of Claim 1, wherein program titles are displayed in different colors to represent associated organizational categories.
4. (ORIGINAL) The device of Claim 1, wherein the organizational categories are represented by icons.
5. (ORIGINAL) The device of Claim 1, wherein the display further includes a first user-link, where selecting the link provides instructions to the display means.
6. (ORIGINAL) The device of Claim 5, wherein the instructions provided to the display means instruct the display means to display a television program.

7. (ORIGINAL) The device of Claim 5, wherein the instructions provided to the display means instruct the display means to display additional textual or graphical electronic program guide data.

8. (ORIGINAL) The device of Claim 5, wherein the instructions provided to the display means instruct the display means to display a receiver operating menu.

9. (ORIGINAL) The device of Claim 8, wherein the receiver operating menu includes a second user-link which instructs the display means to display the electronic program guide based on the organizational categories.

10. (ORIGINAL) The device of Claim 8, further comprising a memory device couple to the receiver for recording selected television content, where the memory device is activated through the selection of a second user-link included in the operating menu.

11. (ORIGINAL) The device of Claim 8, further comprising a second user-link included in, the operating menu, wherein a reminder for an upcoming television program is set when the second user-link is selected.

12. (ORIGINAL) The device of Claim 1, wherein the program titles are arranged three-dimensionally so that some program titles appear to be displayed more distal from the front of the display behind other program titles displayed more proximal to the front of the display.

13. (ORIGINAL) The device of Claim 1, wherein a remote control is used to direct the receiver to perform an operational function, including signaling a recording device to record a specified television program, signaling the tuner to generate a display of a specified television program, and setting a reminder in memory to display the specified television program upon receiving the specified television program in the input stream, the operational function is performed by pressing a button on the remote control.

14. (PREVIOUSLY PRESENTED) A method of displaying an electronic program guide on a screen, the method comprising:

- receiving an input stream of television content and electronic program guide data;
- separating the electronic program guide data from the input stream;
- storing the electronic program guide data separated from the input stream;
- generating a display from the electronic program guide data, wherein the display includes a plurality of program titles, and a plurality of organizational categories, each program title belonging to at least one of the organizational categories;
- arranging the program titles in the display so that program titles which belong to the same organizational categories are spatially adjacent and program titles which are not members of the same organizational categories are spatially separated;
- creating a first-level organization through the organizational categories;
- defining overall content of the program guide through the first-level organization;
- creating a second-level organization through the organizational categories;
- defining the spatial separation of the program titles through the second-level organization;

and

- utilizing organizational categories at any organizational level.

15. (ORIGINAL) The method of Claim 14, further comprising the steps of:

- providing additional levels of organization, spatially separating the program titles; and
- utilizing organizational categories for the additional levels of organization.

16. (ORIGINAL) The method of Claim 14, wherein the program titles utilize different colors to represent the organizational categories.

17. (ORIGINAL) The method of Claim 14, wherein the organizational categories are represented by icons.

18. (ORIGINAL) The method of Claim 14, further comprising:  
receiving a user tuning request selecting a user-link; and  
responding to the tuning request by displaying the television content associated with the selected user-link.

19. (ORIGINAL) The method of Claim 14, further comprising the steps of:  
receiving a user request selecting a user-link; and  
responding to the request by displaying textual or graphical electronic, program guide data associated with the selected user-link.

20. (ORIGINAL) The method of Claim 14, further comprising the steps of:  
displaying an operating menu; and  
displaying at least one user-link in the operating menu.

21. (ORIGINAL) The method of Claim 20, further comprising the step of activating a recording device.

22. (ORIGINAL) The method of Claim 20, further comprising the step of setting a reminder for an upcoming television program.

23. (ORIGINAL) The method of Claim 14, wherein the program titles are arranged three-dimensionally so that some program titles appear to be displayed more distally from a front of the display, behind other program titles that appear to be displayed more proximally to the front of the display.

24. (ORIGINAL) The method of Claim 14, further comprising the steps of:  
requesting the performance of an operational function from a remote control; and  
performing the operational function by one of the following: signaling a recording device to  
record a specified television program; generating a display of the specified television program; and  
setting a reminder to display the specified television program upon transmission of the specified  
television program.

25. (PREVIOUSLY PRESENTED) An electronic program guide comprising:  
a set of electronic program guide data including a plurality of program titles and a plurality of  
organizational categories, where each program title belongs to at least one organizational category;  
a spatial arrangement of program titles in an outline format, where a first-level organization  
of the electronic program guide utilizes one organizational category and defines the first-level of the  
outline format, and a second-level organization of the electronic program guide utilizes a different  
organizational category and defines the second-level of the outline format; and  
wherein the first organizational category and the second organizational category can be used  
at either of the first level of the outline format and the second level of the outline format.

26. (PREVIOUSLY PRESENTED) An electronic program guide comprising:  
a set of electronic program guide data including a plurality of program titles and a plurality of  
organizational categories, where each program title belongs to at least one organizational category;  
a first spatial arrangement of program titles in a three-dimensional format where one  
organization level of the electronic program guide spatially groups program titles which belong to  
the same organizational category in a three-dimensional space and spatially separates program titles  
which do not belong to the same organizational category in a different three-dimensional space; and  
a second spatial arrangement of program titles in two-dimensional space within the three  
dimensional space, wherein a second organizational level of the electronic program guide spatially  
groups program titles which belong to the same organizational category in the same two dimensional  
plane, and spatially separates program titles which do not belong to the same organizational category  
in a different two-dimensional plane.

27. (PREVIOUSLY PRESENTED) A method of generating a program guide for display, comprising the steps of:

retrieving program guide input data, the program guide input data including a plurality of organizational categories, a plurality of program titles, each associated with at least one organizational category; and

generating the program guide, wherein the program guide includes a hierarchical arrangement of at least a portion of the organizational categories, at least a subset of the program titles associated with the portion of the organizational categories; and

wherein the hierarchical arrangement includes a plurality of organizational levels and the at least a portion of the organizational categories are used at any of the organizational levels.

28. (ORIGINAL) The method of Claim 27, wherein the graphical indicia is a spatial proximity between the program title and the organizational category.

29. (ORIGINAL) The method of Claim 27, wherein the organizational categories are selected from the group comprising:

a time category;

a topic category; and

an actor category.

30. (ORIGINAL) The method of Claim 27, wherein the program guide includes a hierarchical arrangement of at least a portion of the organizational categories including a lowest level organizational category, and the graphical indicia indicates an association between the lowest level organizational category and the program titles associated with the lowest level organizational category.

31. (ORIGINAL) The method of Claim 30, wherein the hierarchical arrangement is user-controllable.

32. (ORIGINAL) The method of Claim 27, wherein the organizational categories are differentiated by color.

33. (ORIGINAL) The method of Claim 27, further comprising the steps of:  
receiving a user tuning request selecting a user-link; and  
responding to the user request by displaying program content associated with the selected user link.
34. (ORIGINAL) The method of Claim 27, further comprising the steps of:  
receiving a user request selecting a user-link; and  
responding to the user request.
35. (ORIGINAL) The method of Claim 27, wherein the organizational categories include:  
a first level organizational category defining an overall content of the program guide; and  
a second level organizational category defining a spatial separation of the program titles.
36. (PREVIOUSLY PRESENTED) An apparatus for providing a program guide to a display, comprising:  
a memory for storing program guide data including  
a plurality of organizational categories;  
a plurality of program titles, each associated with at least one organizational category;  
a processor, communicatively coupled to the memory, for generating data describing the program guide, wherein the program guide includes  
a hierarchical arrangement of at least a portion of the organizational categories, the hierarchical arrangement including a plurality of organizational levels, wherein the at least a portion of the organizational categories are used at any of the organizational levels;  
at least a subset of the program titles associated with the organizational category.
37. (PREVIOUSLY PRESENTED) The apparatus of Claim 36, further comprising a graphical indicia of the association between the organizational category and the program titles associated with the organizational category, and wherein the graphical indicia is a spatial proximity between the program title and the organizational category.

38. (ORIGINAL) The apparatus of Claim 36, wherein the organizational categories are selected from the group comprising:

- a time category;
- a topic category; and
- an actor category.

39. (PREVIOUSLY PRESENTED) The apparatus of Claim 37, wherein the organizational categories include a lowest level organizational category, and the graphical indicia indicates an association between the lowest level organizational category and the program titles associated with the lowest level organizational category.

40. (ORIGINAL) The apparatus of Claim 39, wherein the hierarchical arrangement is user-controllable.

41. (ORIGINAL) The apparatus of Claim 36, wherein the organizational categories are differentiated by color.

42. (ORIGINAL) The apparatus of Claim 36, wherein the program guide further comprises at least one first user-link for providing instructions to the processor.

43. (ORIGINAL) The apparatus of Claim 42, wherein the instructions comprise instructions to display a program.

44. (ORIGINAL) The apparatus of Claim 43, wherein the instructions comprise instructions to display additional program guide information selected from the group comprising:  
textural program guide data; and  
graphical program guide data.

45. (ORIGINAL) The apparatus of Claim 43, wherein the instructions comprise instructions to display a receiver operating menu.



46. (ORIGINAL) The apparatus of Claim 45, wherein the receiver operating menu comprises a second user-link for providing instructions to the processor to display the program guide based on the organizational categories.

47. (ORIGINAL) The apparatus of Claim 45, further comprising a memory device coupled to the receiver for recording program content, wherein the memory device is activated through selection of a second user link included in the operating menu.

48. (ORIGINAL) The apparatus of Claim 36, further comprising a second user-link included in the receiver operating menu, wherein a reminder for an upcoming program is set when the second user-link is selected.

49. (ORIGINAL) The apparatus of Claim 36, wherein the program titles are arranged three-dimensionally so that some program titles appear to be displayed more distal from a front of a display behind other program titles displayed more proximal to a front of the display.

50. (ORIGINAL) The apparatus of Claim 36, wherein the processor and the memory are included in a receiver, and a remote control is used to direct the receiver to perform an operational function, including signaling a recording device to perform a function selected from the group comprising:

- recording a specified program;
- signaling the receiver to generate a display of a specified program; and
- setting a reminder to display a specified television program.

51. (ORIGINAL) The apparatus of Claim 36, further comprising:  
means for receiving a user tuning request selecting a user-link; and  
means for responding to the user request by displaying program content associated with the selected user link.

52. (PREVIOUSLY PRESENTED) The apparatus of Claim 36, further comprising:  
means for receiving a user request selecting a user-link; and  
means for responding to the user request.

53. (ORIGINAL) The apparatus of Claim 36, wherein the organizational categories include:

- a first level organizational category defining an overall content of the program guide; and
- a second level organizational category defining a spatial separation of the program titles.

54. (PREVIOUSLY PRESENTED) A program storage device, readable by a computer, tangibly embodying at least one program of instructions executable by the computer to perform method steps of generating a program guide for display, the method steps comprising the steps of:

- retrieving program guide input data, the program guide input data including
  - a plurality of organizational categories;
  - a plurality of program titles, each associated with at least one organizational category;
- generating data describing a program guide, wherein the program guide includes a hierarchical arrangement of at least a portion of the organizational categories, the hierarchical arrangement including a plurality of organizational levels, wherein the at least a portion of the organizational categories are used at any of the organizational levels;
- at least a subset of the program titles associated with the organizational category.

55. (PREVIOUSLY PRESENTED) A device for generating a display of an electronic program guide on a screen, the device comprising:

a receiver including a tuner for receiving an input stream, of television content and electronic program guide data, and separating the electronic program guide data from the input stream;

a memory coupled to the tuner for storing the electronic program guide data separated from the input stream;

display means, coupled to the receiver, for generating a display which combines a set of the electronic program guide data including a plurality of program titles, and a plurality of organizational categories, each program title belonging to at least one of the organizational categories, the program titles arranged in the display so that program titles which belong to the same organizational categories are spatially adjacent and program titles which are not members of the same organizational categories are spatially separated, the organizational categories providing a first-level organization which defines overall content of the display and a second-level organization which defines the spatial separation of the program titles, wherein at least one of the organizational categories are used at any organizational level.

56. (PREVIOUSLY PRESENTED) The device of Claim 55, wherein the organizational categories provide additional levels of organization to the display.

57. (PREVIOUSLY PRESENTED) The device of Claim 55, wherein program titles are displayed in different colors to represent associated organizational categories.

58. (PREVIOUSLY PRESENTED) The device of Claim 55, wherein the organizational categories are represented by icons.

59. (PREVIOUSLY PRESENTED) The device of Claim 55, wherein the display further includes a first user-link, where selecting the link provides instructions to the display means.

60. (PREVIOUSLY PRESENTED) The device of Claim 59, wherein the instructions provided to the display means instruct the display means to display a television program.

61. (PREVIOUSLY PRESENTED) The device of Claim 59, wherein the instructions provided to the display means instruct the display means to display additional textual or graphical electronic program guide data.

62. (PREVIOUSLY PRESENTED) The device of Claim 59, wherein the instructions provided to the display means instruct the display means to display a receiver operating menu.

63. (PREVIOUSLY PRESENTED) The device of Claim 62, wherein the receiver operating menu includes a second user-link which instructs the display means to display the electronic program guide based on the organizational categories.

64. (PREVIOUSLY PRESENTED) The device of Claim 62, further comprising a memory device couple to the receiver for recording selected television content, where the memory device is activated through the selection of a second user-link included in the operating menu.

65. (PREVIOUSLY PRESENTED) The device of Claim 62, further comprising a second user-link included in, the operating menu, wherein a reminder for an upcoming television program is set when the second user-link is selected.

66. (PREVIOUSLY PRESENTED) The device of Claim 55, wherein the program titles are arranged three-dimensionally so that some program titles appear to be displayed more distal from the front of the display behind other program titles displayed more proximal to the front of the display.

67. (PREVIOUSLY PRESENTED) The device of Claim 55, wherein a remote control is used to direct the receiver to perform an operational function, including signaling a recording device to record a specified television program, signaling the tuner to generate a display of a specified television program, and setting a reminder in memory to display the specified television program upon receiving the specified television program in the input stream, the operational function is performed by pressing a button on the remote control.

68. (PREVIOUSLY PRESENTED) A method of displaying an electronic program guide on a screen, the method comprising:

- receiving an input stream of television content and electronic program guide data;
- separating the electronic program guide data from the input stream;
- storing the electronic program guide data separated from the input stream;
- generating a display from the electronic program guide data, wherein the display includes a plurality of program titles, and a plurality of organizational categories, each program title belonging to at least one of the organizational categories;
- arranging the program titles in the display so that program titles which belong to the same organizational categories are spatially adjacent and program titles which are not members of the same organizational categories are spatially separated; and
- utilizing organizational categories at any organizational level.

69. (PREVIOUSLY PRESENTED) The method of Claim 68, further comprising the steps of:

- providing additional levels of organization, spatially separating the program titles; and
- utilizing organizational categories for the additional levels of organization.

70. (PREVIOUSLY PRESENTED) The method of Claim 68, wherein the program titles utilize different colors to represent the organizational categories.

71. (PREVIOUSLY PRESENTED) The method of Claim 68, wherein the organizational categories are represented by icons.

72. (PREVIOUSLY PRESENTED) The method of Claim 68, further comprising:

- receiving a user tuning request selecting a user-link; and
- responding to the tuning request by displaying the television content associated with the selected user-link.

73. (PREVIOUSLY PRESENTED) The method of Claim 68, further comprising the steps of:

receiving a user request selecting a user-link; and

responding to the request by displaying textual or graphical electronic, program guide data associated with the selected user-link.

74. (PREVIOUSLY PRESENTED) The method of Claim 68, further comprising the steps of:

displaying an operating menu; and

displaying at least one user-link in the operating menu.

75. (PREVIOUSLY PRESENTED) The method of Claim 74, further comprising the step of activating a recording device.

76. (PREVIOUSLY PRESENTED) The method of Claim 74, further comprising the step of setting a reminder for an upcoming television program.

77. (PREVIOUSLY PRESENTED) The method of Claim 68, wherein the program titles are arranged three-dimensionally so that some program titles appear to be displayed more distally from a front of the display, behind other program titles that appear to be displayed more proximally to the front of the display.

78. (PREVIOUSLY PRESENTED) The method of Claim 68, further comprising the steps of:

requesting the performance of an operational function from a remote control; and

performing the operational function by one of the following: signaling a recording device to record a specified television program; generating a display of the specified television program; and setting a reminder to display the specified television program upon transmission of the specified television program.

79. (PREVIOUSLY PRESENTED) The method of claim 25, wherein the first level of the outline format is hierarchically above the second level of the outline format.